

Mountain Valley Pipeline, LLC

v.

Easements to Construct, etc., et al.

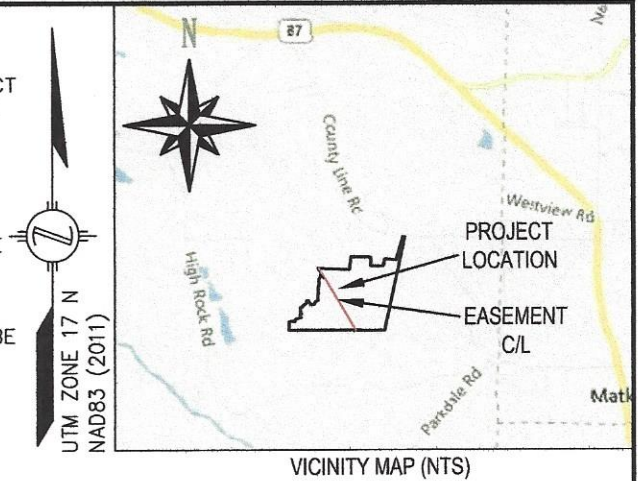
## **Exhibit 81 to Complaint**

Map of MVP Parcel No. NC-RO-180.000

NOTES

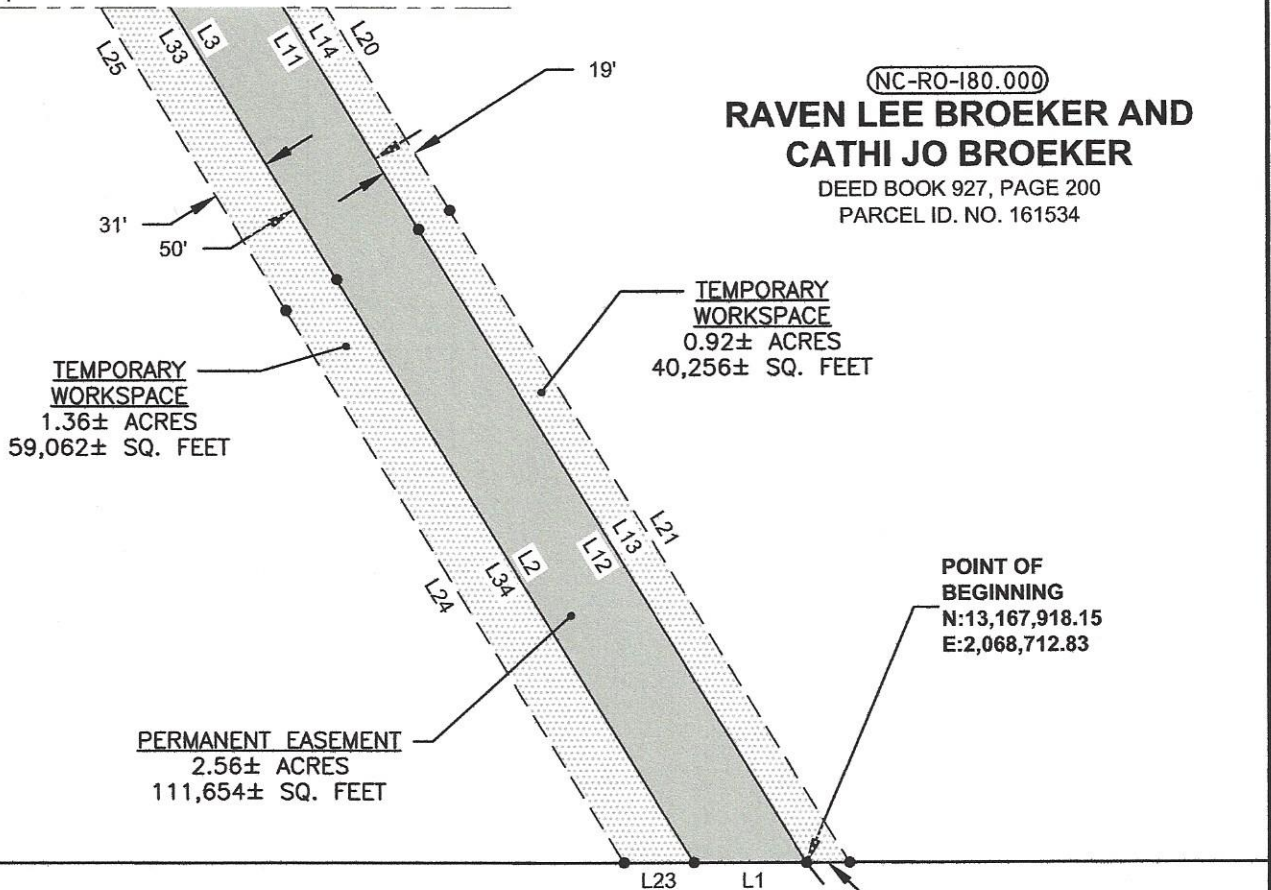
1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 927, PAGE 200
5. PARCEL ID: 161534
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO THE UTM ZONE 17N.
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



VICINITY MAP (NTS)

SEE SHEET 2 OF 4  
MATCHLINE



LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- IRON PIN SET
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

NC-RO-181.000  
N/F

ALVIN N. HERBIN AND WIFE,  
VIRGINIA B. HERBIN  
DEED BOOK 528; 617; 751;730,  
PAGE 357; 53; 266;53  
WILL BOOK 1-483

NGS MONUMENT  
WADE  
N:13,155,124.48  
E:2,078,634.07  
CSF:0.99978839

NGS MONUMENT  
A 3  
N:13,148,457.92  
E:2,081,734.33  
CSF:0.99978777

RAVEN LEE BROEKER AND CATHI JO BROEKER

	sq. ft.	acres
AREA OF PERMANENT EASEMENT:	111,654±	2.56 ACRES
AREA OF TEMPORARY WORKSPACE:	99,318±	2.28 ACRES
AREA OF POSSIBLE TEMPORARY WORKSPACE:	7,214±	0.17 ACRES

CENTERLINE OF EASEMENT: 2,265± feet 137.24± rods

SEE SHEET 4 OF 4 FOR LINE TABLES

I, Thomas Warner Kimmel, certify that this plat is of a PERMANENT EASEMENT for a public utility as defined in GS 62-3; that this plat was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in deed book 927, page 200); that the ratio of precision as calculated is 1:10,000±; that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks at the Class "A" accuracy classification (95% confidence) using RTK/VRS networks and traditional traverses.

That this plat meets the requirements of G.S. 47-30 section (f)(11)(c).

This 3rd day of June, 2020

*Thomas Warner Kimmel*  
THOMAS WARNER KIMMEL, PLS L 3674

LAND  
OWNER  
INITIALS: \_\_\_\_\_  
DATE: \_\_\_\_\_

TRC ENGINEERS, INC  
2200 LIBERTY AVENUE,  
SUITE 100  
PITTSBURGH, PA 15222  
PH: (724) 749-8572 tkimmel@trcsolutions.com  
NC CORPORATE LICENSE No. F-0591

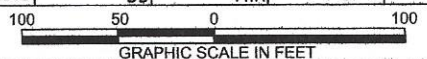


EASEMENT SURVEY  
FOR MVP SOUTHGATE  
TOWNSHIP OF WILLIAMSBURG  
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF  
RAVEN LEE BROEKER AND CATHI JO BROEKER  
NC-RO-180.000  
DEED BOOK 927, PAGE 200

NC-RO-180.000  
Drawn By: DJB Chk'd By: App'd By: TRC Proj. No. 300423 Scale: 1"=100'  
Drawn Date: 1/18/2019 DD TWK Sheet: 1 OF 4 MVP Proj. No.



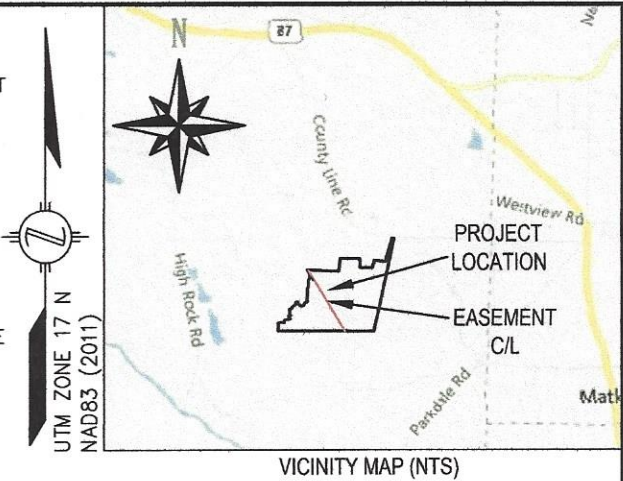
REVISIONS				
A	1/18/2019		ISSUE FOR REVIEW	
B	3/31/2019		UPDATED ADJOINER INFO	
1	5/5/2020	CRJ	GENERAL REVISIONS	TWK
No.	Date	Rev By	Description	Checked



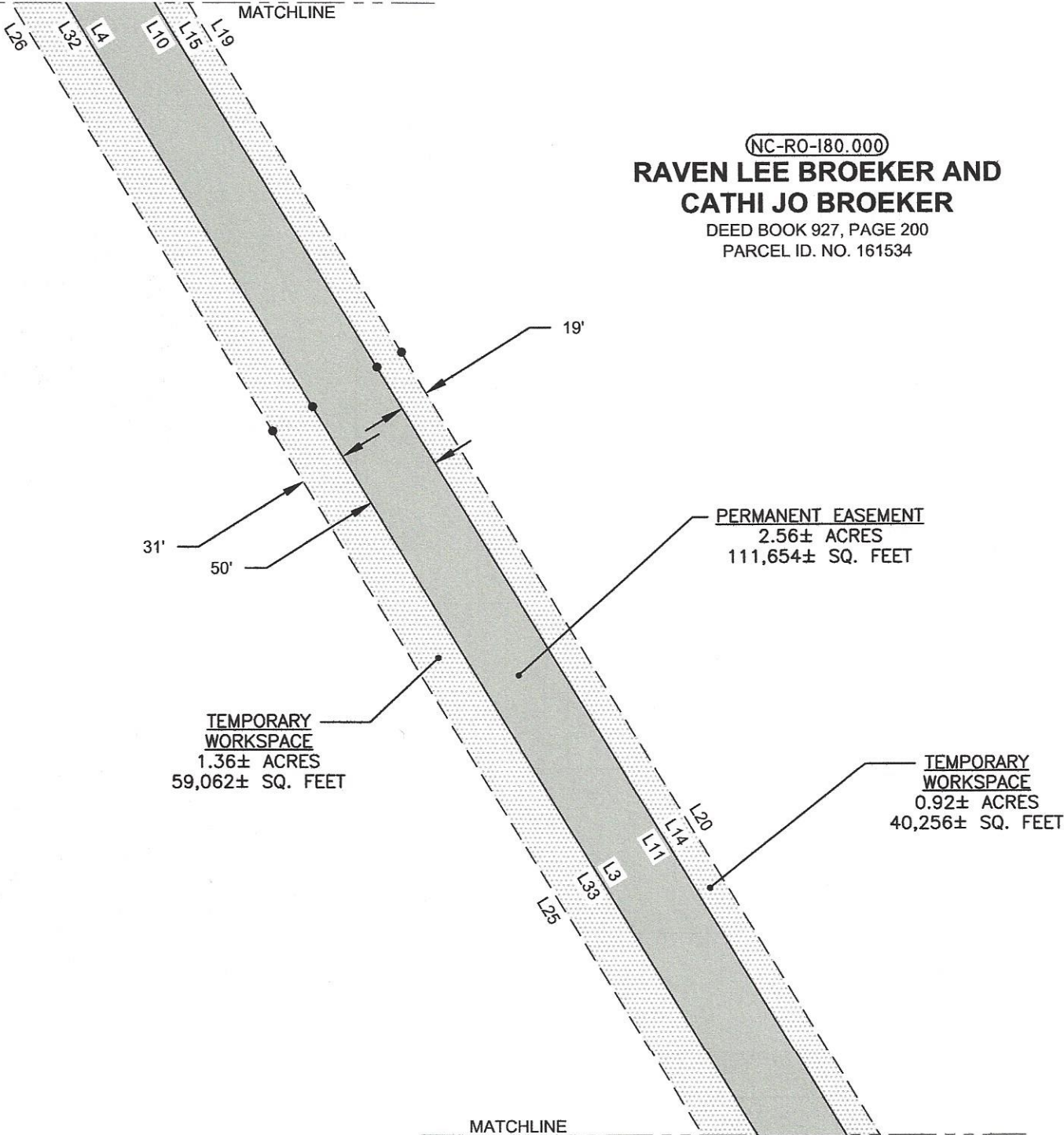
NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 927, PAGE 200
5. PARCEL ID: 161534
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO THE UTM ZONE 17N.
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



SEE SHEET 3 OF 4  
MATCHLINE



NC-RO-180.000

**RAVEN LEE BROEKER AND  
CATHI JO BROEKER**

DEED BOOK 927, PAGE 200  
PARCEL ID. NO. 161534

**PERMANENT EASEMENT**  
2.56± ACRES  
111,654± SQ. FEET

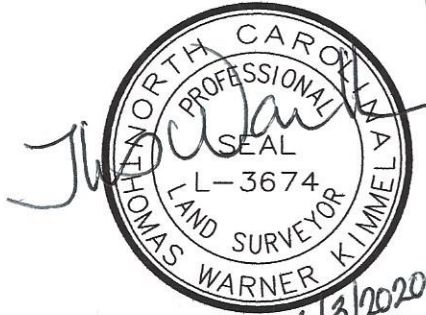
**TEMPORARY  
WORKSPACE**  
1.36± ACRES  
59,062± SQ. FEET

**TEMPORARY  
WORKSPACE**  
0.92± ACRES  
40,256± SQ. FEET

MATCHLINE  
SEE SHEET 1 OF 4

LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- IRON PIN SET
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE



LAND  
OWNER  
INITIALS: \_\_\_\_\_  
DATE: \_\_\_\_\_

SEE SHEET 4 OF 4 FOR LINE TABLES

EASEMENT SURVEY  
FOR MVP SOUTHGATE  
TOWNSHIP OF WILLIAMSBURG  
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF  
RAVEN LEE BROEKER AND CATHI JO BROEKER

NC-RO-180.000  
DEED BOOK 927, PAGE 200

Drawn By: DJB	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423	Scale: 1"=100'
Drawn Date: 1/18/2019			Sheet: 2 OF 4	MVP Proj. No.
GRAPHIC SCALE IN FEET				
REVISIONS				
A	1/18/2019		ISSUE FOR REVIEW	
B	3/31/2019		UPDATED ADJOINER INFO	
1	5/5/2020	CRJ	GENERAL REVISIONS	TWK
No.	Date	Rev By	Description	Checked

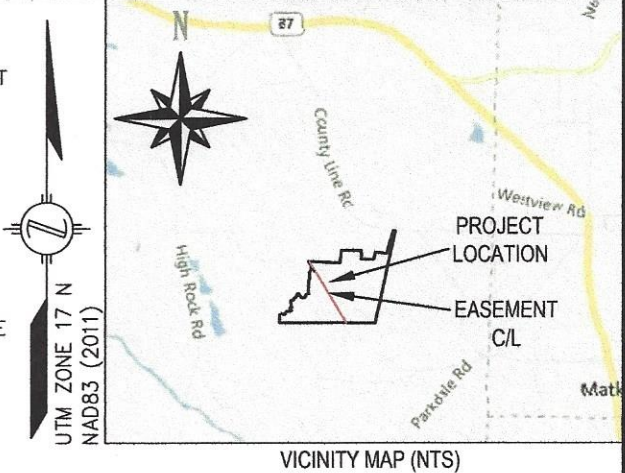
SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.



NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 927, PAGE 200
5. PARCEL ID: 161534
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO THE UTM ZONE 17N.
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



NC-RO-179.000

N/F

JOHN R. SCHWARZ  
DEED BOOK 1437, PAGE 871

POSSIBLE  
TEMPORARY  
WORKSPACE  
0.06± ACRES  
2,737± SQ. FEET

POSSIBLE  
TEMPORARY  
WORKSPACE  
0.10± ACRES  
4,477± SQ. FEET

NC-RO-180.000

RAVEN LEE BROEKER AND  
CATHI JO BROEKER

DEED BOOK 927, PAGE 200  
PARCEL ID. NO. 161534

PERMANENT EASEMENT  
2.56± ACRES  
111,654± SQ. FEET

TEMPORARY  
WORKSPACE  
0.92± ACRES  
40,256± SQ. FEET

TEMPORARY  
WORKSPACE  
1.36± ACRES  
59,062± SQ. FEET

MATCHLINE  
SEE SHEET 2 OF 4

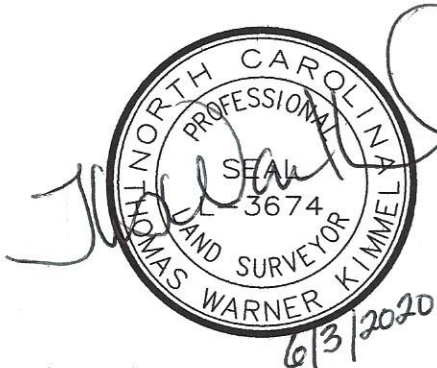
SEE SHEET 4 OF 4 FOR LINE TABLES

LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- IRON PIN SET
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

LAND  
OWNER  
INITIALS: \_\_\_\_\_  
DATE: \_\_\_\_\_

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.



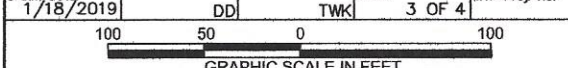
EASEMENT SURVEY  
FOR MVP SOUTHGATE  
TOWNSHIP OF WILLIAMSBURG  
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF  
RAVEN LEE BROEKER AND CATHI JO BROEKER

NC-RO-180.000  
DEED BOOK 927, PAGE 200

Drawn By: DJB Chk'd By: DD App'd By: TWK  
Drawn Date: 1/18/2019  
Scale: 1"=100'  
Sheet: 3 OF 4  
MVP Proj. No.



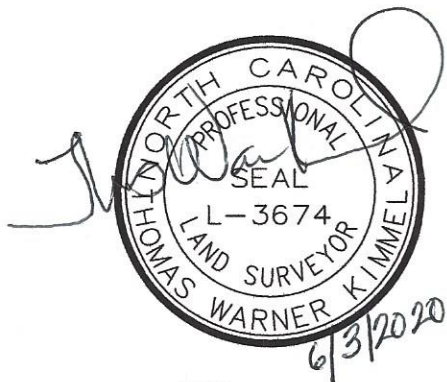
REVISIONS				
A	1/18/2019		ISSUE FOR REVIEW	
B	3/31/2019		UPDATED ADJOINER INFO	
1	5/5/2020	CRJ	GENERAL REVISIONS	TWK
No.	Date	Rev By	Description	Checked



EXHIBIT A

PERMANENT EASEMENT		
LINE TABLE		
LINE	BEARING	DISTANCE
L1	N89°57'10"W	58.63'
L2	N31°26'18"W	354.48'
L3	N31°21'06"W	730.43'
L4	N31°24'55"W	905.03'
L5	N31°30'40"W	91.05'
L6	N03°54'50"E	21.06'
L7	N33°49'45"W	164.06'
L8	S87°56'34"E	53.32'
L9	S31°30'40"E	242.70'
L10	S31°24'55"E	905.10'
L11	S31°21'06"E	730.42'
L12	S31°26'18"E	385.06'

TEMPORARY WORKSPACE		
LINE TABLE		
LINE	BEARING	DISTANCE
L13	N31°26'18"W	385.06'
L14	N31°21'06"W	730.42'
L15	N31°24'55"W	905.10'
L16	N31°30'40"W	92.33'
L17	N58°29'20"E	19.00'
L18	S31°30'40"E	92.35'
L19	S31°24'55"E	905.13'
L20	S31°21'06"E	730.42'
L21	S31°26'18"E	396.68'
L22	N89°57'10"W	22.28'
L23	N89°57'10"W	36.35'
L24	N31°26'18"W	335.51'
L25	N31°21'06"W	730.44'
L26	N31°24'55"W	808.59'
L27	N58°35'05"E	25.00'
L28	N31°24'55"W	96.42'
L29	N31°30'40"W	9.16'
L30	N06°12'59"E	9.81'
L31	S31°30'40"E	16.92'
L32	S31°24'55"E	905.03'
L33	S31°21'06"E	730.43'
L34	S31°26'18"E	354.48'



LAND  
OWNER  
INITIALS: \_\_\_\_\_  
  
DATE: \_\_\_\_\_

SEE SHEETS 1-3 OF 4 FOR GRAPHICS AND LABELS

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF WILLIAMSBURG ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF RAVEN LEE BROEKER AND CATHI JO BROEKER NC-RO-180.000 DEED BOOK 927, PAGE 200				
NC-RO-180.000				
Drawn By:	Chk'd By:	App'd By:	TRC Proj. No.	Scale:
DJB			300423	NTS
Drawn Date:			Sheet:	MVP Proj. No.
1/18/2019	DD	TWK	4 OF 4	
REVISIONS				
A	1/18/2019		ISSUE FOR REVIEW	
B	3/31/2019		UPDATED OWNER INFO	
1	5/5/2020	CRJ	GENERAL REVISIONS	TWK
No.	Date	Rev By	Description	Checked

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.